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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,567	05/12/2005	Jean-Francois Biegun	CAC.P0046	6534
Edward G Grei	7590 12/23/200 ve	EXAMINER		
	Greive Bobak Taylor &	WOODALL, NICHOLAS W		
Fourth Floor First National Tower Akron, OH 44308-1456			ART UNIT	PAPER NUMBER
			3775	
			MAIL DATE	DELIVERY MODE
			12/23/2009	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Comments	10/534,567	BIEGUN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Nicholas Woodall	3775			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>22 S</u>	eptember 2009.				
	action is non-final.				
<i>i</i>	<i>'-</i>				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
<ul> <li>4)  Claim(s) 12,13,15-21 and 25 is/are pending in 4a) Of the above claim(s) is/are withdray</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 12,13,15-21 and 25 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/o</li> </ul>	wn from consideration.				
Application Papers					
9)⊠ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) \[ \sum \text{Notice of References Cited (PTO-892)} \]	4) ☐ Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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#### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 22<sup>nd</sup>, 2009 has been entered.

## Specification

2. The disclosure is objected to because of the following informalities: the specification references claim 1 (page 1 line 28), claims 2-8 (page 4 line 11), and claim 10 (page 4 line 12), which are no longer pending in the current application.

Appropriate correction is required.

### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 12, 13, 15-21, and 25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 20 appears to

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imply a limitation directed to the exposing of the plastic material to radiation hardens the material, i.e. ... so that after this exposition, said plastic material is hard enough to remove the part of the bone from the bone when said rasp is used.... A limitation directed to the exposure of a plastic material to radiation to harden the plastic material is not supported by the disclosure as originally filed. The specification filed on May 12th, 2005 does not disclose exposing a plastic material to radiation to strengthen the plastic material. The only reference to exposing the plastic material to radiation is on page 2 lines 29-30 and page 3 lines 1-6, which discloses the exposing the plastic material to radiation to sterilize the device, wherein trying to sterilize the device a second time, either by radiation or by an autoclave, would destroy the device. Furthermore, the amended claims filed on June 26th, 2006 do not disclose a limitation directed to the plastic material being exposed to radiation to strengthen the plastic material. Therefore, the disclosure as originally filed does not support the limitation and the examiner is treating the limitation as new matter. Claim 21 states the plastic material of the rasp being hard enough to remove bone from the hip of knee. The examiner is unable to fine support for a rasp being used in the knee area. The specification discloses a rasp that is used in the installation of the hip prosthesis and a cutting guide that is used in the installation of knee prosthesis, but the cutting guide does not cut the bone in the area of the knee. Therefore, the disclosure as originally filed does not support a rasp used to cut bone in the area of the knee and the examiner is interpreting the limitation as new matter.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 12, 13, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

7. Claim 20 states ...exposing said plastic material to beta or gamma rays, so that after this exposition, said plastic material is hard enough to remove the part of the bone from the bone when said rasp is used.... The claim language is unclear regarding the hardness of the plastic material, i.e. if the plastic material was hard enough prior to exposure of the radiation and is not changed by the exposure or if the plastic material is hardened by the exposure of the radiation. For examination purposes, the examiner will treat the limitation as being directed to a plastic material that is hard enough prior to and after exposure of the plastic material to radiation.

## Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claim 15, 16, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Geisser (U.S. Patent 5,454,815).

Geisser discloses a device made from a plastic material including a carbon fiber reinforcing insert completely embedded within the plastic material, such as polyethylenes (column 3 lines 7-12), that come into contact with a bone to rasp the

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bone. The plastic material is hard enough to rasp the bone of the hip or knee and wears out after a single use (column 1 lines 29-35; column 1 lines 40-67), wherein the plastic is inherently capable deteriorating when put into an autoclave set to at least 137 degrees Celsius. The examiner would like to note that Geisser discloses the device can be made from polyethelynes, which is a specific material listed by the applicant in the specification for the body of the rasp (page 4 lines 24-25). Therefore, the device inherently has the capability of deteriorating at 137 degrees Celsius, since they are made from the same materials and the applicant provide the melting temperature range for the materials. Also, the examiner would like to note that Geisser discloses that all rasps dull during use and that any dullness is a considerable disadvantage suggesting that all rasps wear out after a single use causing significant problems such as longer operation time and overheating (see column 1 lines 29-35). Geisser than discloses his invention directed to a single use plastic rasp that will be discarded after use to alleviate the need for sterilization and cleaning (see column 1 lines 61-64). Therefore, the examiner believes Geisser clearly discloses a device that wears out after a single use and is then discarded.

## Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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11. Claims 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Geisser (U.S. Patent 5,454,815) in view of Judd (U.S. Patent 1,396,934).

Geisser discloses the invention as claimed except for the insert being made from a metal. Geisser discloses a device made from a plastic material including a carbon fiber reinforcing insert completely embedded within the plastic material in order to reinforce the plastic material. Judd teaches a device made from a plastic material including a metallic reinforcing insert completely embedded within the plastic material in order to reinforce the plastic material. Because both Geisser and Judd teach devices comprising reinforcing inserts for plastic materials, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute one reinforcing insert with the other in order to achieve the predictable result of reinforcing the plastic material.

The device of Geisser and modified by Judd disclose the invention as claimed except for the insert being made from a shape memory material. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Geisser as modified by Judd wherein the insert is made from a shape memory material, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

12. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Geisser (U.S. Patent 5,454,815) in view of Morgan (U.S. Patent 5,910,106).

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Geisser discloses the invention as claimed except for the plastic material being exposed to radiation. Morgan teaches exposing a plastic medical instrument with gamma radiation in order to sterilize the device (column 6 lines 10-12). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Geisser wherein the plastic material is exposed to gamma radiation in view of Morgan in order to sterilize the device.

13. Claims 12, 13, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Geisser (U.S. Patent 5,454,815) in view of Morgan (U.S. Patent 5,910,106).

Geisser discloses a method comprising the steps of providing a body made from a plastic material including a carbon fiber reinforcing insert completely embedded within the plastic material, such as polyamides (column 3 lines 7-12), that come into contact with a bone to rasp the bone, wherein the plastic is hard enough to rasp the bone and wears out after a single use (column 1 lines 29-35; column 1 lines 40-67), wherein the plastic is inherently capable deteriorating when put into an autoclave set to at least 137 degrees Celsius. Geisser fails to disclose the method further comprising the step of exposing the device to gamma or beta radiation. Morgan teaches a method comprising the step of exposing a device to gamma radiation in order to sterilize the device (column 6 lines 10-12). It would have been obvious to one having ordinary skill in the art at the time the invention was made to perform the method of Geisser further comprising the step of exposing the device to gamma radiation in view of Morgan in order to sterilize the device.

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## Response to Arguments

14. Applicant's arguments filed September 22, 2009 have been fully considered but they are not persuasive. The applicant's argument that the Geisser reference does not disclose a device hard enough to remove bone of the hip or knee is not persuasive. First, if the applicant is going to rely on the declaration filed on March 16th, 2009 for the hardness of the bone of the hip of knee then the current disclosure may not be enabling. The declaration states that the average Shore D Hardness of cortical bone is between 85 and 95, wherein the hardness of the bone in the hip of the femoral bone is approximately 85 (see page 1 paragraph 6). The specification of the current application filed on May 12<sup>th</sup>, 2005 discloses that the plastic material used for the formation of the rasp body includes polyethylene (LDPE or HDPE), polypropylene, polyacetal, PVC, etc., wherein the Shore D Hardness values of the LDPE is between 45-55, HDPE is between 65-70, and PP is 80 (page 4 lines 24-30). Therefore, if the Shore D Hardness value for the bone is correct, then the applicant's current disclosure provides a plastic material that is unable to remove the bone in the knee or hip area and would be considered nonenabling as claimed. However, if the specification of the current application is correct and the rasp for installing hip prosthesis (page 4 lines 13-14) includes a plastic material, i.e. the plastic materials listed above as disclosed on page 4 lines 24-30, that is hard enough to remove bone during the installation of a hip prosthesis (page 2 lines 4-13) then the rasp disclosed in the Geisser reference made from polyethylene plastic materials, which includes LDPE and HDPE, must also be hard enough to remove the bone in the hip area since the material is the exact material disclosed in the current

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application. Therefore, either the current application is not enabling based on the disclosure of the application as originally filed on May 12<sup>th</sup>, 2005 and the declaration filed on March 16th, 2009, or the Geisser reference discloses a device that meets all the limitations of the claims since the device is made from the exact materials disclosed in the specification. The applicant's argument that the prior art reference of Grunig discloses that the Geisser reference is ineffective is not persuasive for the same reasons as discussed above.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Woodall whose telephone number is (571)272-5204. The examiner can normally be reached on Monday to Friday 8:00 to 5:30 EST..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Barrett can be reached on 571-272-4746. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nicholas Woodall/ Examiner, Art Unit 3775 /Thomas C. Barrett/ Supervisory Patent Examiner, Art Unit 3775